MLDS CENTER

Maryland Longitudinal Data System

Better Data • Informed Choices • Improved Results

The Role of Concentrated Poverty and Race in Long-Term Academic and Workforce Outcomes

Task Force on Reconciliation and Equity

May 8, 2019

https://mldscenter.maryland.go



Introductions and Acknowledgements

- About the presenters:
 - Angela K. Henneberger, Ph.D., is director of the Research Branch at the MLDS Center and Research Assistant Professor at the University of Maryland School of Social Work (SSW).
 - Bess A. Rose, Ed.D., is statistician with the Research Branch at the MLDS Center and the SSW.
- Acknowledgements:
 - Maryland Commission on Innovation and Excellence in Education
 - MLDS Center staff



Overview

- What is the MLDS Center?
- The problem
- How does the MLDS Center measure race and poverty?
- The overlap of race and poverty
- Results from Maryland's data
- Summary, next steps and Q & A



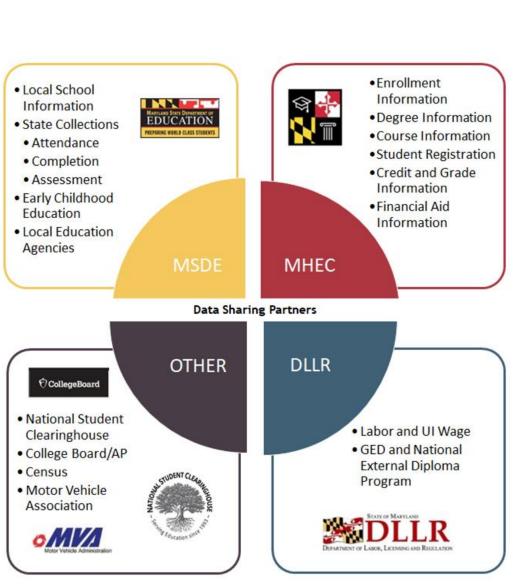
What is the MLDS Center?

mldscenter.maryland.gov



The MLDS Center

Mission: The mission of the MLDS Center is to develop and maintain a data system that contains student data from all levels of education and workforce data in order to provide analyses, produce relevant information, and inform choices to improve student and workforce outcomes, while ensuring the highest standards of system security and data privacy.



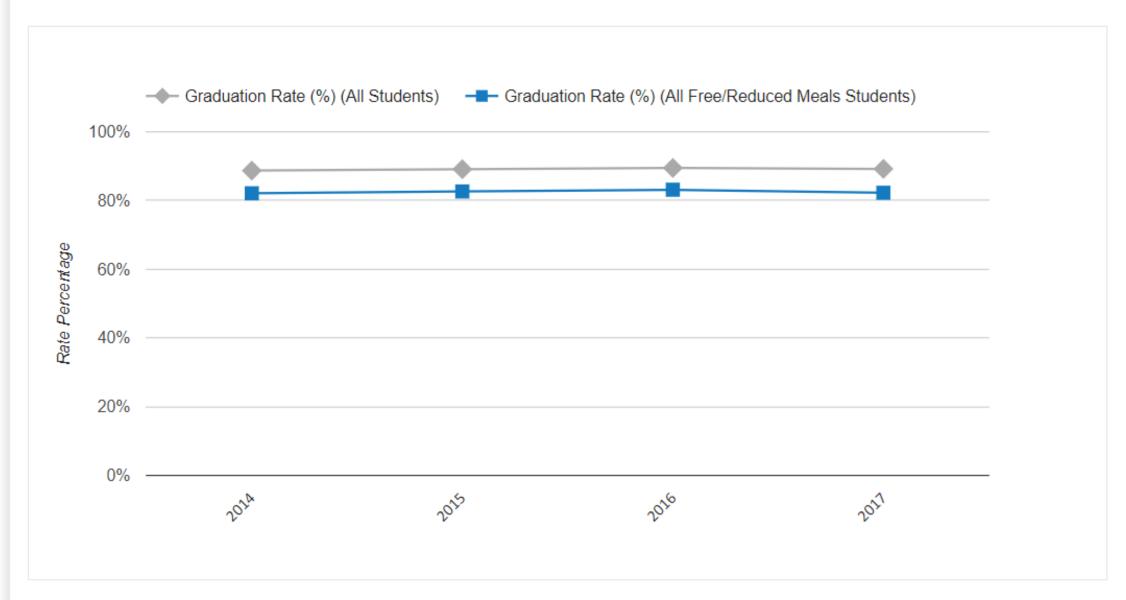
The problem

Students in poverty and Black students have worse educational outcomes

Cohort Graduation Rate Trend Data (2014 - 2017) 💿

Data Last Updated: 3/5/2019

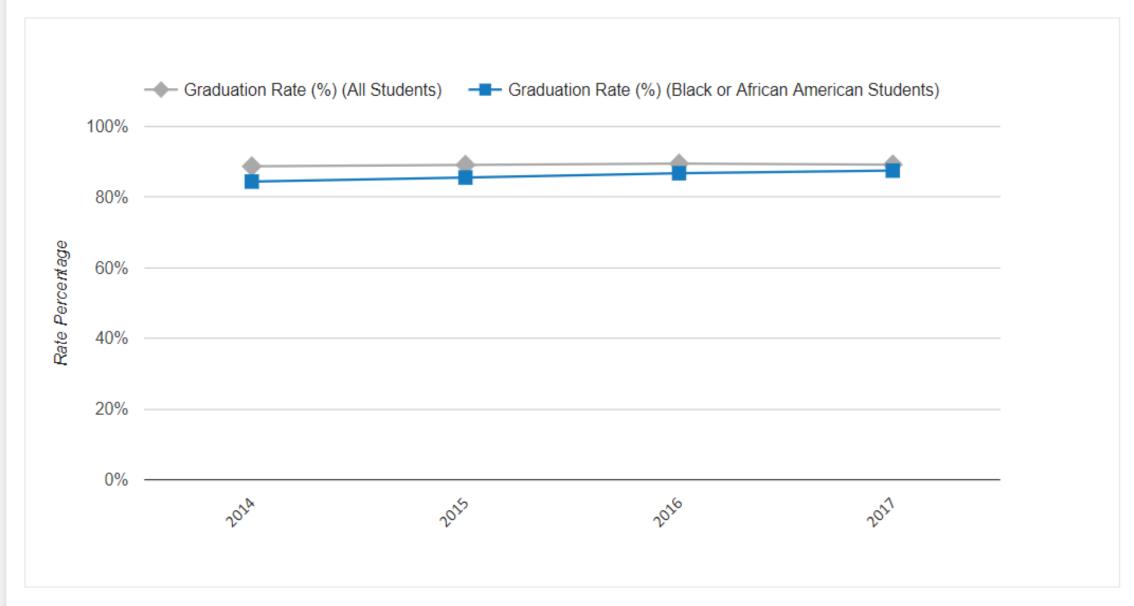
Source: mdreportcard.org



Filter Results:

Data Last Updated: 3/5/2019

Source: mdreportcard.org

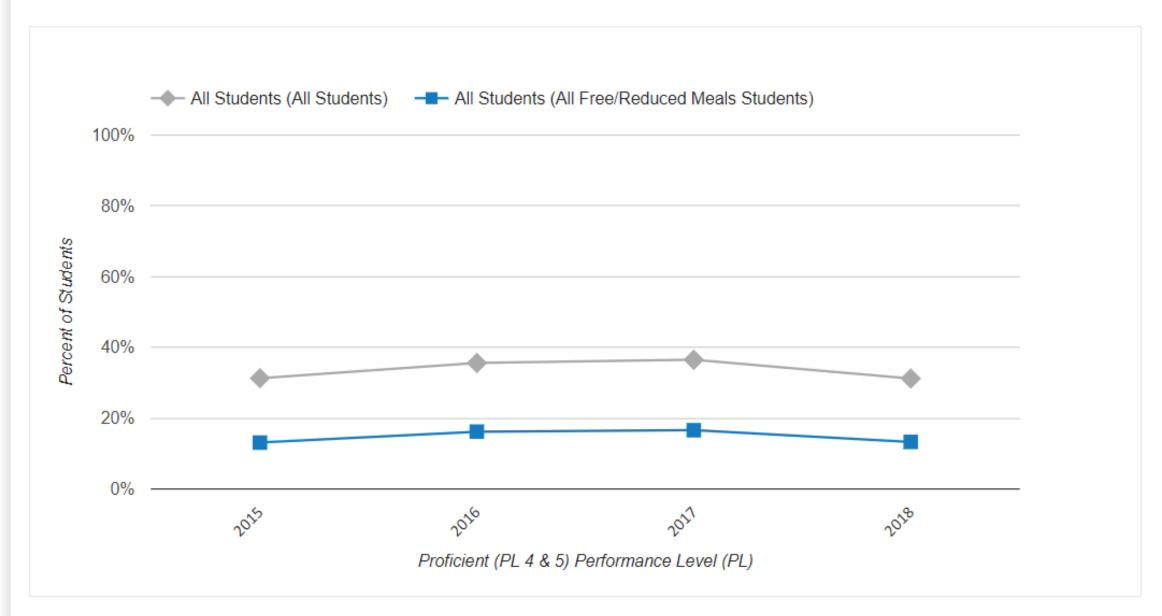


Filter Results:

Cohort Type: 5-Year Adj Cohort, Gender: All Students, Special Services: All Students, Race and Ethnicity: African Am.

Data Last Updated: 7/30/2018

Source: mdreportcard.org

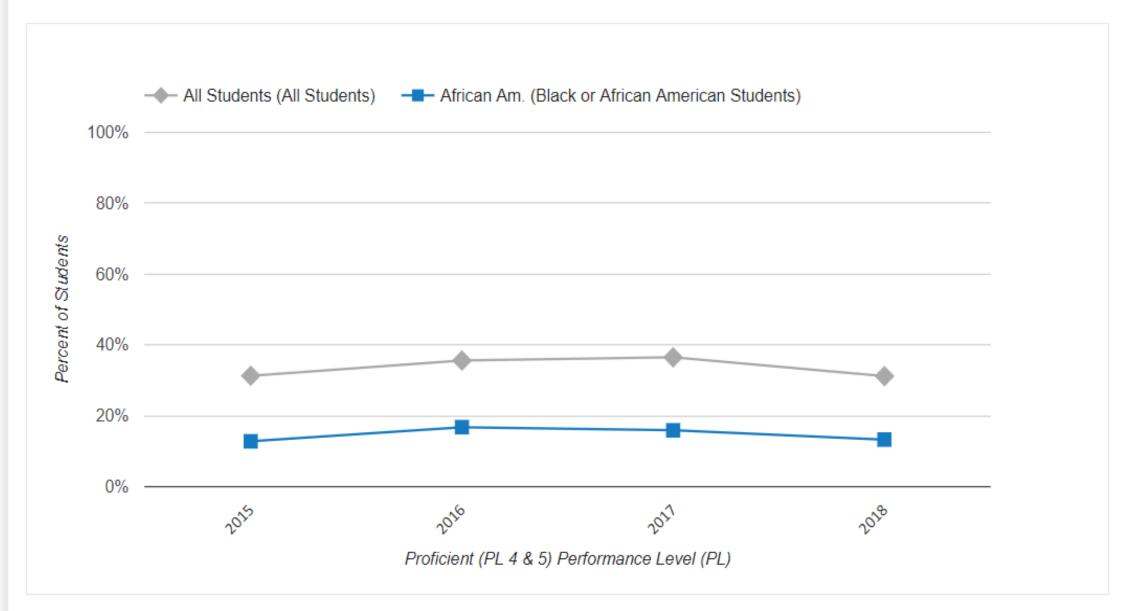


Filter Results:

Assessment Type: Math - Algebra I, Gender: All Students, Special Services: FARMS, Race and Ethnicity: All Students

Data Last Updated: 7/30/2018

Source: mdreportcard.org



Filter Results:

Assessment Type: Math - Algebra I, Gender: All Students, Special Services: All Students, Race and Ethnicity: African Am.

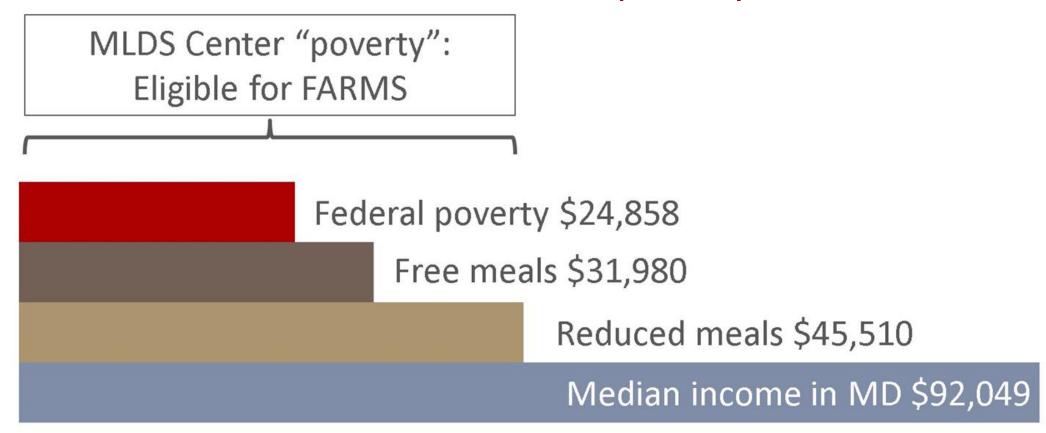
How does the MLDS Center measure race and poverty?

How does the MLDS Center define race?

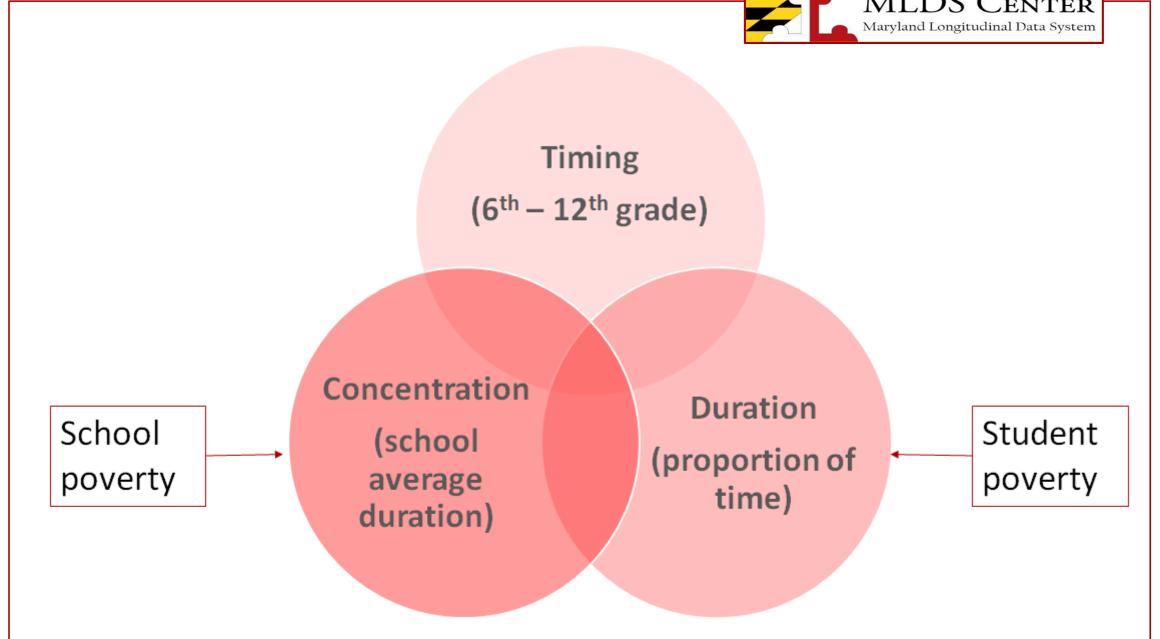
- Race
 - Asian
 - Black
 - White
 - Native Hawaiian or Other Pacific Islander
 - 2 American Indian or Alaska Native
 - Two or More Races
 - Unknown
- Ethnicity
 - Hispanic or Latino
 - Not Hispanic or Latino
 - Unknown



How does the MLDS Center define "poverty"?



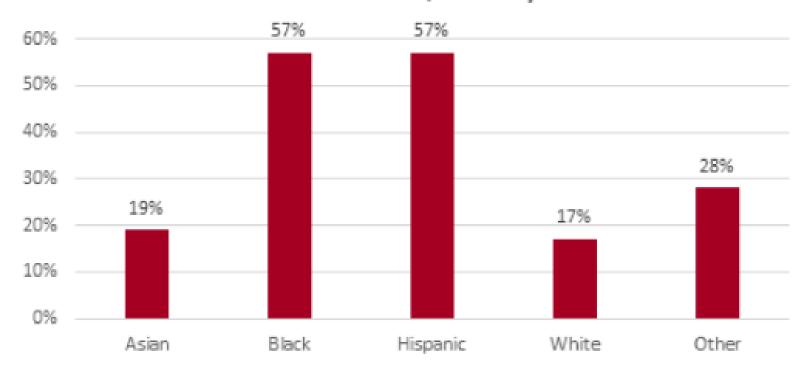
Household income thresholds for a family of 4



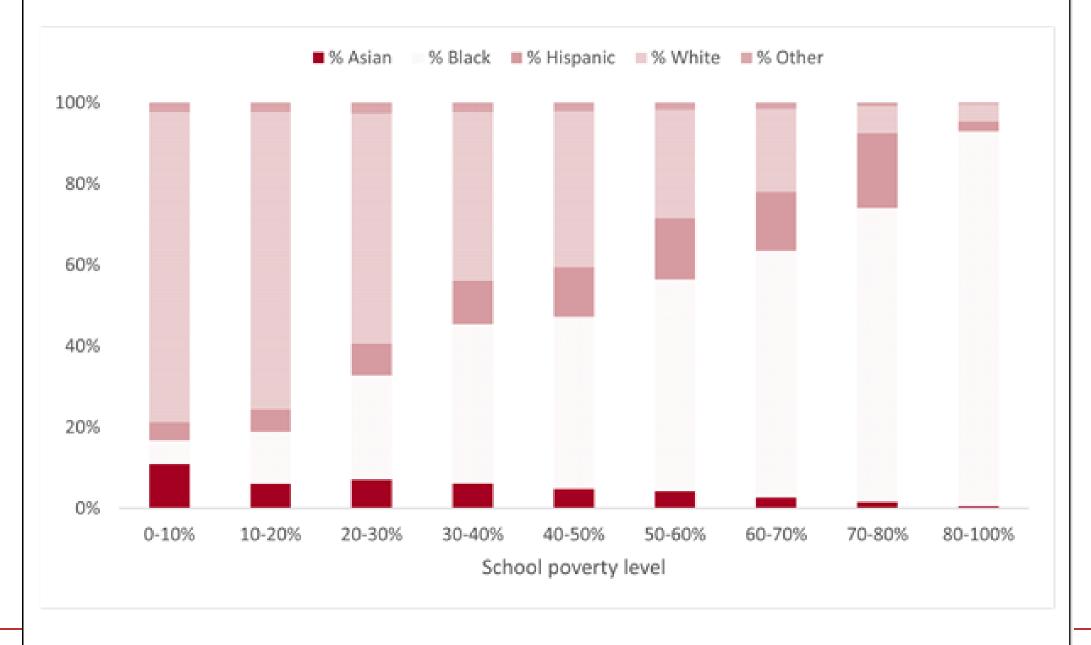


The overlap of race and poverty

Percent of Time Eligible for FARMS in 6th-12th Grade by Student Race/Ethnicity







Results from Maryland's data

Disentangling the roles of student poverty, school concentration of poverty, student race/ethnicity, and school racial/ethnic composition



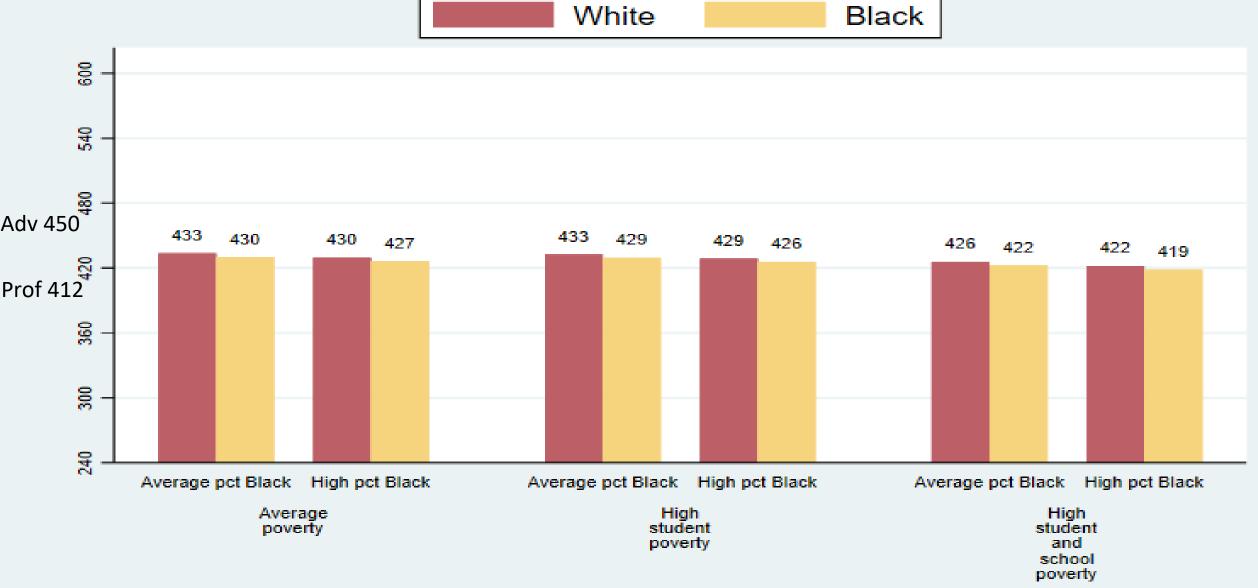
Overview of findings

- Students who experienced poverty for longer periods of time have worse educational outcomes
- School concentration of poverty, regardless of individual experience, predicts worse educational outcomes
- Black-white gaps in standardized test scores and wages persist regardless of poverty
- Black-white gaps in high school graduation and postsecondary enrollment are reversed when controlling for poverty and school composition

Results: Standardized test scores

White-Black gaps in predicted HSA Algebra scores

by school racial composition and student and school poverty





Predicted standardized test scores: Summary

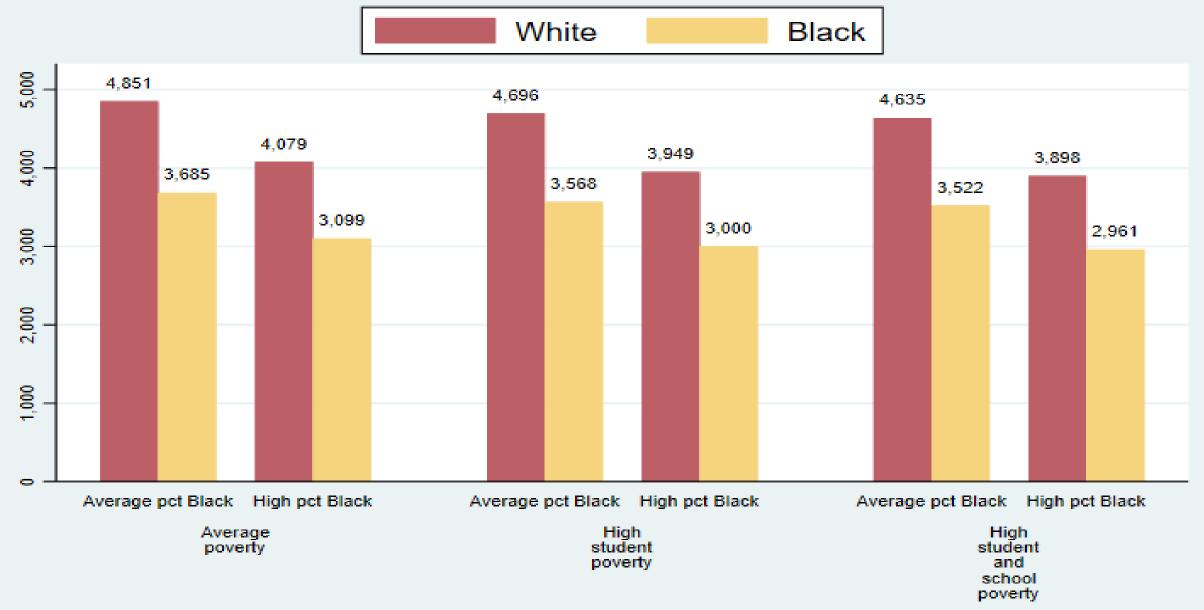
Controlling for poverty and race/ethnicity:

- 1. Student poverty: Students with longer duration of poverty are predicted to have lower scores
- 2. School poverty: Students who attend schools with higher concentrations of poverty are predicted to have lower scores
- 3. Student race/ethnicity: Black students are predicted to have lower scores than white students with similar poverty backgrounds
- 4. School race/ethnicity composition: Students in schools with larger Black populations are predicted to have lower scores on HSA Algebra than similar students in schools with smaller Black populations



Results: Wages for high school graduates not enrolled in college

White-Black gaps in predicted MD wages - not enrolled in postsecondary by school racial composition and student and school poverty





Wages - not enrolled in college: Summary

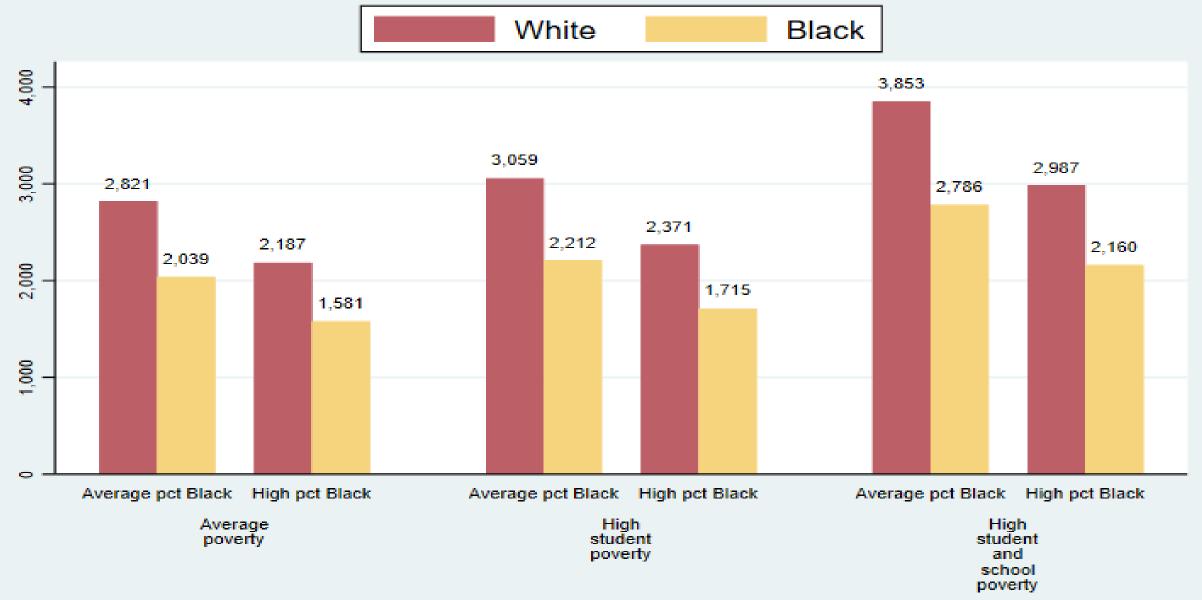
Controlling for poverty and race/ethnicity:

- 1. Student poverty: Students with longer duration of poverty are predicted to have slightly lower wages
- 2. School poverty: Students who attend schools with higher concentrations of poverty are predicted to have about the same wages
- 3. Student race/ethnicity: Black students are predicted to have 28% lower wages than white students with similar poverty backgrounds
- 4. School race/ethnicity composition: Students in schools with larger Black populations are predicted to have lower wages than similar students in schools with smaller Black populations



Results: Wages for high school graduates enrolled in college in Maryland

White-Black gaps in predicted MD wages - enrolled in MD postsecondary by school racial composition and student and school poverty





Wages - enrolled in college in Maryland: Summary

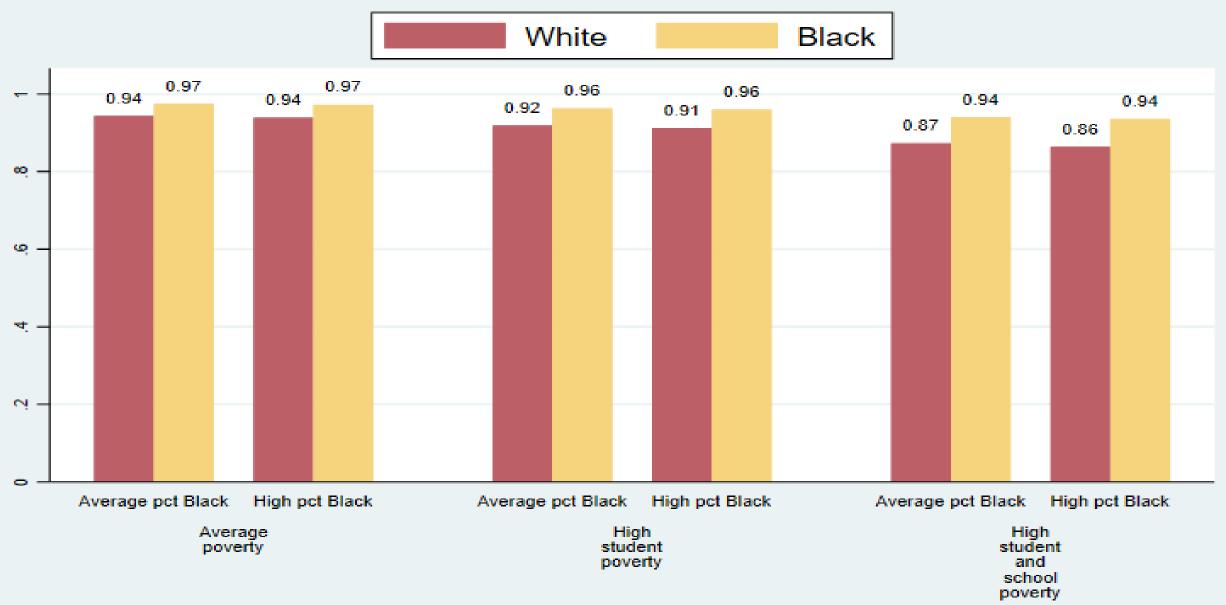
Controlling for poverty and race/ethnicity:

- 1. Student poverty: Students with longer duration of poverty are predicted to have higher wages
- 2. School poverty: Students who attend schools with higher concentrations of poverty are predicted to have higher wages
- 3. Student race/ethnicity: Black students are predicted to have 32% lower wages than white students with similar poverty backgrounds
- 4. School race/ethnicity composition: Students in schools with larger Black populations are predicted to have lower wages than similar students in schools with smaller Black populations



Results: High school graduation and postsecondary enrollment

White-Black gaps in predicted probability of ever graduating from high school by school racial composition and student and school poverty





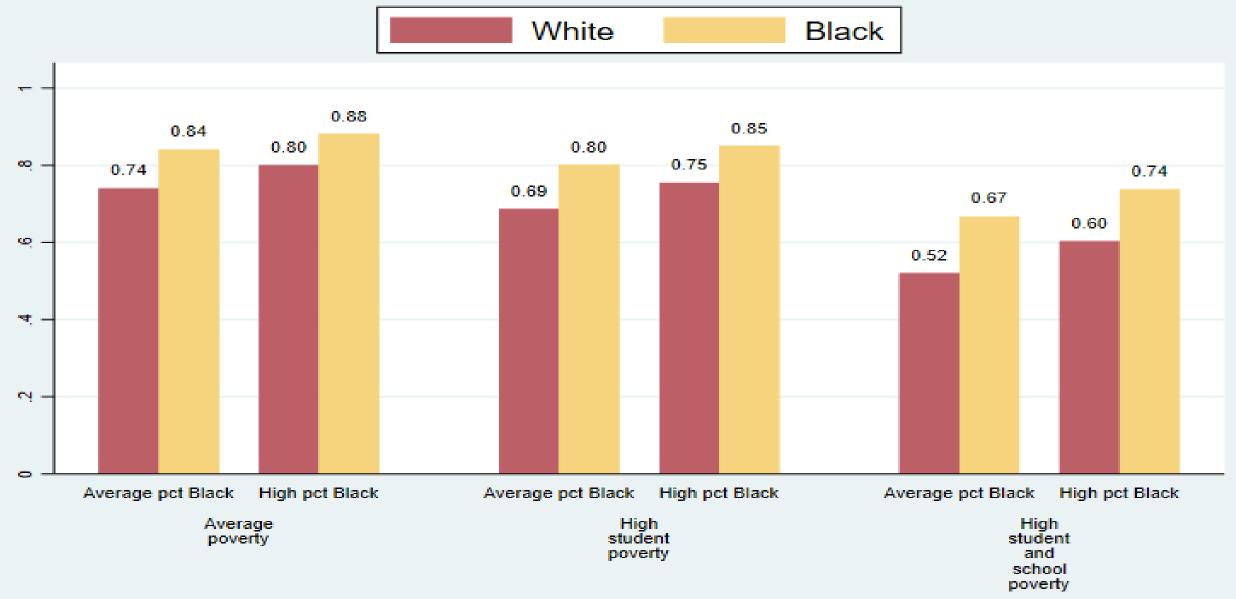
Predicted HS graduation ever: Summary

Controlling for poverty and race/ethnicity:

- 1. Student poverty: Students with longer duration of poverty are less likely to ever graduate from high school
- School poverty: Students who attend schools with higher concentrations of poverty are less likely to ever graduate from high school
- 3. Student race/ethnicity: Black students are *more* likely to ever graduate from high school than white students with similar poverty backgrounds
- 4. School race/ethnicity composition: Students in schools with larger Black populations have about the same likelihood to ever graduate from high school than similar students in schools with smaller Black

White-Black gaps in predicted probability of enrolling in postsecondary

by school racial composition and student and school poverty





Predicted postsecondary enrollment: Summary

Controlling for poverty and race/ethnicity:

- 1. Student poverty: Students with longer duration of poverty are less likely to enroll in postsecondary within 1 year of on-time high school graduation
- 2. School poverty: Students who attend schools with higher concentrations of poverty are less likely to enroll in postsecondary
- 3. Student race/ethnicity: Black students are *more* likely to enroll in postsecondary than white students with similar poverty backgrounds
- 4. School race/ethnicity composition: Students in schools with larger Black populations are *more* likely to enroll in postsecondary than similar students in schools with smaller Black populations

Summary



Summary of findings

- Students who experienced poverty for longer periods of time have worse educational outcomes
- School concentration of poverty, regardless of individual experience, predicts worse educational outcomes
- Black-white gaps in standardized test scores and wages persist regardless of poverty
- Black-white gaps in high school graduation and postsecondary enrollment are reversed when controlling for poverty and school composition



Questions?

Contact us: MLDS.Center@Maryland.gov



Acknowledgements

We are grateful for the data, technical, and research support provided by the MLDS Center and its agency partners. The views and opinions expressed are those of the authors and do not necessarily represent the views of the MLDS Center or its agency partners.

Thanks to the MLDSC Research Team and Research and Policy Advisory Board, participants at the MLDS Research Series and MD Connections Summit, and MSDE staff for helpful input.